The State of Drupal 9 presented by @amberhimesmatz from @drupalizeme

Most slides by @gaborhojtsy at @acquia, a few by @amberhimesmatz at @drupalizeme <u>CC BY-NC-SA 2.5</u>



Helo! I'm Amber Himes Matz.

I know a few things about Drupal 9 and want to share them with you.

On Twitter: @amberhimesmatz





INNOVATION IN DRUPAL



Semantic versioning

Allows to release feature updates in minor releases (8.1, 8.2, etc) with backward compatibility.





Scheduled releases

Minor releases every six months make versions predictable. New features introduced at a regular pace.







Experimental modules

When features need more time and feedback to be finalized, they are added as experimental modules. Backward compatibility is still supported.







Experimental: Media Library, Workspaces Stable: Demo, Monolingual migrations





Experimental: Hugely improved Media Library Stable: Layout Builder, JSON:API Third party: Optional Twig 2 support*











DRUPAL 9?







Update third-party dependencies





Third-Party Dependencies



Symfony



jouer/ write less, do more.

drupal.org/core/dependencies





















Drupal 10 release <u>estimated</u> middle of 2022

Drupal 9 end of life estimated end of 2023





THE MAKING 3 OF DRUPAL 9

Major versions were brand new codebases in the past





Now major versions are derived from the previous major





Deprecation processes

Backward compatible APIs are kept while future changes are indicated so API consumers can prepare for the change to Drupal 9.















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	30		













New solution

Deprecated

Symfony 3



 $\bullet \bullet \bullet$





New solution

New solution

Deprecated

Deprecated

Symfony 3

New solution

New solution

Symfony 4/5



Drupal 9.0 API = Drupal 8.9 API minus deprecated parts plus third party dependencies updated





New solution

New solution

Deprecated

Deprecated

Symfony 3

New solution

New solution

Symfony 4/5



Drupal 8 modules **not using deprecated APIs** will continue to work on Drupal 9.





New solution

New solution

Deprecated

Deprecated

Symfony 3

New solution

New solution

Symfony 4/5



We are building Drupal 9 in Drupal 8 step-by-step.





PREPARING FOR DRUPAL 9





Keep Drupal core and contributed projects up-to-date.





// Before file_unmanaged_copy(\$source, \$destination);

// After \Drupal::service('file_system')->copy(\$source, \$destination);

Use this with actual dependency injection to get the benefits.



🔴 🔴 🔴

```
/**
  Copies a file to a new location without database changes or hook invocation.
*
 *
* [...]
 *
 * @deprecated in Drupal 8.7.0, will be removed before Drupal 9.0.0.
     Use \Drupal\Core\File\FileSystemInterface::copy().
 *
 *
* @see https://www.drupal.org/node/3006851
*/
function file_unmanaged_copy($source, $destination = NULL, $replace = FILE_EXISTS_RENAME)
{
 @trigger_error('file_unmanaged_copy() is deprecated in Drupal 8.7.0 and will be removed
before Drupal 9.0.0. Use \Drupal\Core\File\FileSystemInterface::copy(). See
https://www.drupal.org/node/3006851.', E_USER_DEPRECATED);
    [Backwards compatible implementation]
```



.

drupal> curl -0 -L https://github.com/mglaman/drupal-check/releases/latest/downloa d/drupal-check.phar % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 100 148 148 0 406 0 ---- --- --- --- 405 0 0 0 1046 0 --:-- 1046 100 608 0 608 0 100 10.0M 0 3662k 0 0:00:02 0:00:02 --:--:-- 6427k 100 10.0M 0 drupal>

https://github.com/mglaman/drupal-check





drupal> curl -0 -L https://github.com/mglaman/drupal-check/releases/latest/downloa d/drupal-check.phar % Total % Received % Xferd Average Speed Time Time Current Time Dload Upload Total Spent Left Speed 100148 0 148 0 0 406 0 ---- 405 0 1046 0 ---- 1046 100 608 0 608 0 3662k 0 0:00:02 0:00:02 --:--:-- 6427k 0 100 10.0M 100 10.0M 0 drupal> php drupal-check.phar core/modules/path 21/35 [60%

https://github.com/mglaman/drupal-check





Line src/Tests/PathTestBase.php

Class Drupal\path\Tests\PathTestBase extends deprecated class 17 Drupal\simpletest\WebTestBase: in Drupal 8.8.0 and will be removed before Drupal 9.0.0. Instead, use \Drupal\Tests\BrowserTestBase. See https://www.drupal.org/node/3030340.

tests/src/Kernel/Migrate/d6/MigrateUrlAliasTest.php Line

Call to deprecated method lookupDestinationId() of class 78 Drupal\migrate\Plugin\MigrateIdMapInterface: in Drupal 8.1.x, will be removed before Drupal 9.0.x. Use lookupDestinationIds() instead.

ERROR] Found 5 errors

https://github.com/mglaman/drupal-check





Example.com Form Tools			Not scanned	
ONTRIBUTED MODULES AND THEN	MES			
tributed code is available from drup ects.	al.org. Problems here may be partially reso	olved by updating	to the latest version. Read more at	oout how to update contributed
Sound in 3 projects.	6 WARNINGS Found in 2 projects.		2 CHECKED No known errors found.	2 NOT SCANNED Scan to find errors.
PROJECT			AVAILABLE UPDATE	STATUS
CDN 8.x-3.3 CDN 8.x-3.3 has no remaining o	deprecation errors, is as ready as possible	for Drupal 9!	Up to date	No known errors
Chaos Tools 8.x-3.0			8.x-3.2	🕴 4 errors, 2 warnings
Git Deploy 8.x-2.0-alpha1			Up to date	No known errors
Pathauto 8.x-1.4			Up to date	3 1 error
Redirect 8.x-1.3			8.x-1.4	Not scanned



1 error found. 4 warnings found. Items categorized "Fix now" are uses of deprecated APIs from community unsupported core versions.

See #3056118: Keep Upgrade Status itself Drupal 9 compatible other than testing code

STATUS	FILE NAME	LINE	ERROR
A Fix later	modules/contrib/upgrade_status/src/ DeprecationAnalyser.php	364	Call to deprecated function file_prepare_directory(). Deprecated in Drupal 8.7.0, will be removed before Drupal 9.0.0. Use \ Drupal\Core\File\FileSystemInterface::prepareDirectory().
A Fix later	modules/contrib/upgrade_status/src/ DeprecationAnalyser.php	372	Call to deprecated function file_prepare_directory(). Deprecated in Drupal 8.7.0, will be removed before Drupal 9.0.0. Use \ Drupal\Core\File\FileSystemInterface::prepareDirectory().
S Fix now	modules/contrib/upgrade_status/tests/modules/ upgrade_status_test_contrib_error/src/Controller/ UpgradeStatusTestContribErrorController.php	15	Call to deprecated function format_string(). Deprecated in Drup 8.0.0, will be removed before Drupal 9.0.0. Use \Drupal\ Component\Render\FormattableMarkup.
Check manually	modules/contrib/upgrade_status/tests/modules/ upgrade_status_test_error/ fatal.php	3	Syntax error, unexpected T_STRING on line 3
	<pre>codules/contrib/upgrade_status/testr codules/ status_test_error/src/Cc TostErrorCor</pre>	10	Call to deprecated function menu_cache_clear_all(). Deprecated in Drupal 8.6.0, will be removed before Drupal 9.0.0. Use \



Upgrade Status

https://drupal.org/project/upgrade_status


Test on drupal.org with drupalci.yml snippet

build: assessment: validate_codebase: # Static analysis of code for @deprecated uses. phpstan: halt-on-fail: false testing: run_tests.standard: types: 'Simpletest, PHPUnit-Unit, PHPUnit-Kernel, PHPUnit # Fails on trigger_error() calls encountered. suppress-deprecations: false



Customizing DrupalCI Testing for Projects

http://bit.ly/custom-drupalci

https://www.drupal.org/drupalorg/docs/drupal-ci/ customizing-drupalci-testing-for-projects



Drupal8-Rector proof of concept automates some fixes

@@ -103,7 +105,7 @@

\$machine_name = '';

if (!empty(\$featurename) && empty(\$packages[\$featurename])) { drupal_set_message(\$this->t('Feature @name does not exist.', ['@name' => \$featurename]), 'error'); \$this->messenger()->addError(\$this->t('Feature @name does not exist.', ['@name' => \$featurename])); return [];

elseif (!empty(\$featurename)) {

@@ -178,7 +180,7 @@

\$config = \$this->featuresManager->getConfigCollection(); \$items = array_filter(\$form_state->getValue('diff')); if (empty(\$items)) {

drupal_set_message(\$this->t('No configuration was selected for import.'), 'warning'); \$this->messenger()->addWarning(\$this->t('No configuration was selected for import.')); return;

foreach (\$items as \$config_name) {

00 -192,7 +194,7 00

÷

\$type = ConfigurationItem::fromConfigStringToConfigType(\$item['type']);





Drupal8-Rector

https://pronovix.com/blog/drupal-9-automateddeprecated-code-removal-proof-concept http://bit.ly/drupal8-rector



Should you remove all deprecated code use immediately?



Custom code: as fast as feasible



Contributed projects: be compatible with supported core



Acquia Drupal 6 and 7 porting and data, Drupal 8 branch **Consensus Enterprises** Maintenance and Drupal 8 data

Project information

Module categories: Utility





Drupal 9 is planned to be released June 3, 2020.



Stable releases for this project are covered by the security advisory policy. There are currently no supported stable releases.

Downloads

8.x-1.0-alpha3 released 29 May 2019 Commended by the project's maintainer. ¬ (29.37 KB) | zip (53.17 K[¬])

See #3056118: Keep Upgrade Status itself Drupal 9 compatible other than testing code



When do we know all the deprecated things?



Drupal 8.8 is the last version to deprecate for Drupal 9



Should I create 9.x-1.x-dev branches for my projects?

https://dgo.to/2807145



core: 8.x

8.x was already not correct for projects supporting only 8.3+, etc. Workarounds existed using system module dependency.

core_version_requirement: ^8.8 || 9.0

New key introduced with Drupal 8.7.7 and Drupal 8.8.0. Uses the composer format. Allows multiple major versions too.



Will contributed modules be compatible?



Drupal 9 compatibility issues found in 7000+ modules in March 2019





Drupal 9 compatibility issues found in contrib modules end of July 2019



None



phpstan warnings for supported drupal.org projects

https://dispatcher.drupalci.org/job/phpstan/ lastBuild/checkstyle/ http://bit.ly/drupalci-phpstan



Is Your Module Ready for Drupal 9? **Click Here to Find Out** by Dwayne McDaniel (@McDwayne) https://pantheon.io/blog/your-module-readydrupal-9-click-here-find-out http://bit.ly/d9-module-ready



What about themes and Twig 2?



See Issue "Provide information on usages of deprecated code in Twig templates"

https://dgo.to/3054924



"The big deal about Drupal 9 is... that it should not be a big deal." (adries



https://dri.es/plan-for-drupal-9





I AN ON DRUPAL 7!





First Drupal 9 release									Drupal 7 and 8 end of life							
2019			2020					20	21	2022						
Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	C		
8.7		8.8		8.9 9.0		9.1		9.2		9.3		9.4		9		
	Drupal 7 security and bug fix support											Commercial security support until at least 2024				
	Drupal 8 security and bug fix support															
Drupal 9 security and bug fix s											upport					





Better media

Config mgmt

Layout Builder



Content Moderation

Multilingual BigPipe



Contrib Use Upgrade Status module (Drupal 7 version) to estimate upgradability.

Use **Drupal** Module Upgrader to get a head start on updating your custom code.

Custom

Content

Use the core Migrate module suite with contrib extensions as needed.



Upgrade Status: drupal.org/project/upgrade_status Drupal Module Upgrader: drupal.org/project/drupalmoduleupgrader Migrate suite (core)



Drupal 9 compatibility issues found in contrib modules end of July 2019



None



Skipping Drupal 8 does not actually bring benefits





Use **drupal-check** in your Drupal 7 migration to ensure Drupal 9 compatibility.



Recap

1. Drupal innovates twice a year and will continue to do so. 2. Drupal 9 is built in Drupal 8 step-by-step. 3. Keep up with Drupal 8 and you will be prepared for an easy way to 9. 5. Vendors will offer extended Drupal 7 support.

- 4. For Drupal 7 sites there is no reason to wait until 9.



Original Slides: bit.ly/state-of-drupal-9

These slides: bit.ly/amber-state-drupal-9

Documentation: drupal.org/docs/9





CREDITS

Special thanks to all people who made and share these awesome resources for free:

- Content by @gaborhojtsy, some inspired by @Dries
- Presentation template designed by <u>Slidesmash</u> >
- Photographs by <u>unsplash.com</u> and <u>pexels.com</u>
- Vector Icons by <u>Matthew Skiles</u>



Thanks!

More questions? Tweet @amberhimesmatz





First Drupal 9 release									Drupal 7 and 8 end of life							
2019			2020					20	21	2022						
Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	C		
8.7		8.8		8.9 9.0		9.1		9.2		9.3		9.4		9		
	Drupal 7 security and bug fix support											Commercial security support until at least 2024				
	Drupal 8 security and bug fix support															
Drupal 9 security and bug fix s											upport					









Helo. I Am John Miller

I am here because I love to design presentations.

You can contact me at @username





YOUR HEADLINE

Build better presentations in less time


"A person who never made a mistake never tried anything new"







Content itself is what the end-user derives value from also can refer to the information provided.



YOUR SLIDE TITLE



Big Title

The marketing mix is a business tool used in marketing and by marketers, originally can be used







Content A

Content itself is what the end-user derives value from also can refer to the information provided through the medium, the way in which the information was presented, as well as the added features included in the medium in which that information was delivered. The medium, however, provides little to no value to the end-user without the information and experiences that make

CONTENT IN TWO COLUMNS

Content B

Content itself is what the end-user derives value from also can refer to the information provided through the medium, the way in which the information was presented, as well as the added features included in the medium in which that information was delivered. The medium, however, provides little to no value to the end-user without the information and experiences that make



Content A

Content itself is what the end-user derives value from also can refer to the information provided through the medium, the way in which the information was presented, as well as the added features included in the medium in which that information was delivered.

Content B

Content itself is what the end-user derives value from also can refer to the information provided through the medium, the way in which the information was presented, as well as the added features included in the medium in which that information was delivered.

CONTENT IN TWO COLUMNS

Content C

Content itself is what the end-user derives value from also can refer to the information provided through the medium, the way in which the information was presented, as well as the added features included in the medium in which that information was delivered.



A Picture Is Worth **A** Thousand Words

Itself is what the end-user derives value from also can refer is what the end-user derives value from also can refer to the information provided through the medium.







Use Big Images To Show Ideas



USE SHAPE TO EXPLAIN IDEAS





TABLES TO COMPARE DATA

	A	B	C
Content A	100	200	400
Content B	\$67,000	\$56,000	\$78,000
Content C	4500	60000	\$8,000
Content D	34000	\$400	\$600
Content E	\$90	\$800	\$1,000





WORLD MAP

Headquarters





56,790,500

Write here your big numbers







56,790,500

Revenue from sales

FUNNY FACTS

130%

56,790,500

Project Achievements

Users around the world



OUR PROCESS

The marketing mix is a business tool used in marketing

02

01

The marketing mix is a business tool used in marketing The marketing mix is a business tool used in marketing

04

The marketing mix is a business tool used in marketing

03



SOME FEATURES



Content A

Itself is what the end-user derives value from also can refer to the information



refer to the information



Content C

Itself is what the end-user derives value from also can refer to the information Co Its o de

refer to the information

Content B

Itself is what the end-user derives value from also can



Content B

Itself is what the end-user derives value from also can refer to the information

Content D

Itself is what the end-user

derives value from also can



Content D

Itself is what the end-user

derives value from also can refer to the information









iPhone App Project

Itself is what the end-user derives value from

also can refer to the information







Laptop Project

Itself is what the end-user derives value from also can refer to the information





Content B

Itself is what the end-user derives value from also can refer to the information



Content D

Itself is what the end-user derives value from also can refer to the information











Thanks!

Any questions?

You can find me at: @username email@domain.com



CREDITS

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- Vector Icons by <u>Matthew Skiles</u>

Presentation template designed by <u>Slidesmash</u>

Photographs by <u>unsplash.com</u> and <u>pexels.com</u>



Presentation Design

This presentation uses the following typographies and colors:

Free Fonts used: https://www.fontsquirrel.com/fonts/nunito

Colors used

